

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

08/07/2002

BANNER & WITCOFF, LTD. 1001 G STREET, N.W. 11TH FL. WASHINGTON, DC 20001 EXAMINER
SOUAYA, JEHANNE E

1634

ART UNIT

435-006000

CLASS-SUBCLASS

DATE MAILED: 08/07/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/164,764	10/01/1998	DAVID SIDRANSKY	01107.76459	7055

TITLE OF INVENTION: DETECTION OF HYPERMUTABLE NUCLEIC ACID SEQUENCE IN TISSUE AND BODY FLUIDS

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$640	\$0	\$640	11/07/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

Fax (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590

08/07/2002

BANNER & WITCOFF, LTD. 1001 G STREET, N.W. 11TH FL. WASHINGTON, DC 20001

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name) (Signature) (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/164,764	10/01/1998	DAVID SIDRANSKY	01107.76459	7055

TITLE OF INVENTION: DETECTION OF HYPERMUTABLE NUCLEIC ACID SEQUENCE IN TISSUE AND BODY FLUIDS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$640	\$0	\$640	11/07/2002
EXAMI	NER	ART UNIT	CLASS-SUBCLASS		
SOUAYA, JEHANNE E 1634		435-006000			
R 1.363). Change of correspond Address form PTO/SB/I	nce address or indication of ence address (or Change of 22) attached.	Correspondence	2. For printing on the patent from the names of up to 3 registered or agents OR, alternatively, (2) single firm (having as a mem attorney or agent) and the name	patent attorneys the name of a ber a registered mes of up to 2	
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		registered patent attorneys or ag is listed, no name will be printed.	•		

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE	(B) RESIDENCE: (CITY	and STATE OR	COUNTRY)	
Please check the appropriate assignee category or ca	tegories (will not be printed on the patent)	□ individual	☐ corporation or other private group entity	y 🛭 government
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	A check in the amount	of the fee(s) is er	nclosed.	
☐ Publication Fee	Payment by credit card	Form PTO-203	8 is attached.	
☐ Advance Order - # of Copies	The Commissioner is h Deposit Account Number	ereby authorized	by charge the required fee(s), or credit any (enclose an extra copy of this form).	overpayment, to
Commissioner for Patents is requested to apply the I	ssue Fee and Publication Fee (if any) or to re-	apply any previo	ously paid issue fee to the application identif	ied above.
(Authorized Signature)	(Date)			
NOTE; The Issue Fee and Publication Fee (if resother than the applicant; a registered attorney of interest as shown by the records of the United State. This collection of information is required by 37 obtain or retain a benefit by the public which is application. Confidentiality is governed by 35 U.S. estimated to take 12 minutes to complete, including completed application form to the USPTO. Time case. Any comments on the amount of time you suggestions for reducing this burden, should be separated and Trademark Office, U.S. Department of NOT SEND FEES OR COMPLETED FOR Commissioner for Patents, Washington, DC 20231	ces Patent and Trademark Office. CFR 1.311. The information is required to to file (and by the USPTO to process) an .C. 122 and 37 CFR 1.14. This collection is ng gathering, preparing, and submitting the will vary depending upon the individual ou require to complete this form and/or sent to the Chief Information Officer, U.S. Commerce, Washington, D.C. 20231. DOMS TO THIS ADDRESS. SEND TO:			
Under the Paperwork Reduction Act of 1995, collection of information unless it displays a valid	no persons are required to respond to a OMB control number.			



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/164,764	10/01/1998	DAVID SIDRANSKY	01107.76459 7055	
75	90 08/07/2002		EXAMIN	ER
BANNER & WITCOFF, LTD.		SOUAYA, JEHANNE E		
1001 G STREET, N 11TH FL.	N.W.		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20001		NGTON, DC 20001	1634	
			DATE MAILED: 08/07/2002	

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/164,764	10/01/1998	DAVID SIDRANSKY	01107.76459 7055	
75	90 08/07/2002		EXAMIN	ER
BANNER & WIT	COFF, LTD.		SOUAYA, JEH	IANNE E
1001 G STREET, N 11TH FL.	1.W.		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20001		INGTON, DC 20001		
			DATE MAILED, 09/07/2002	

DATE MAILED: 08/07/2002

Notice of Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2002, 37 CFR 1.18 is proposed to be revised to change the patent issue fees as set forth below. As stated above, the final fees may be a different amount, and applicant should check the web site given above when paying the fee.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

By a small entity (Sec. 1.27(a))--\$655.00 By other than a small entity--\$1,310.00

(b) Issue fee for issuing a design patent:

By a small entity (Sec. 1.27(a))--\$235.00 By other than a small entity--\$470.00

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))--\$315.00 By other than a small entity--\$630.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center

of the Office of Patent Publication at (703) 305-8283.

Page 4 of 4

	Application No.	Applicant(s)		
Nation of Allowability	09/164,764	SIDRANSKY, DAVID	Y, DAVID	
Notice of Allowability	Examiner	Art Unit		
	Jehanne Souaya	1634		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due o	d course. THIS	
 This communication is responsive to The allowed claim(s) is/are 23-32,37,39-41 and 43-45. The drawings filed on are accepted by the Examine 4.	der 35 U.S.C. § 119(a)-(d) or (f). been received. been received in Application No cuments have been received in this received in the second control of the second control	national stage applicat	ion from the	
6. ☑ Acknowledgment is made of a claim for domestic priority under the Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of The A SUBSTITUTE OATH OR DECLARATION must be submitted in the Submitted Complete (PTO-152) which gives reasonable to the Application (PTO-152) which gives the Application (PTO-152) w	this communication to file a reply conthis application. THIS THREE-MON	TH PERIOD IS NOT I	EXTENDABLE.	
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing of color including changes required by the attached Examiner Identifying indicia such as the application number (see 37 CFR 1 of each sheet. The drawings should be filed as a separate paper 	correction filed, which has be sometimes as the Comment or in the Comment or in the Comment or the drawing should be written on the drawing should be written shou	een approved by the Ender Paper Notes in the top margin (ne	No ot the back)	
9. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T			ote the	
Attachment(s)				
 1 ☐ Notice of References Cited (PTO-892) 3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 ☐ Information Disclosure Statements (PTO-1449), Paper No 7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4☐ Interview Summa 6☐ Examiner's Ame	al Patent Application (Fary (PTO-413), Paper Indment/Comment ement of Reasons for A	No	

Application/Control Number: 09/164,764

Art Unit: 1634

REASONS FOR ALLOWANCE

Page 2

The following is an examiner's statement of reasons for allowance: the claims are drawn 1. to detecting lung cancer in a sputum specimen comprising determining a microsatellite marker length alteration relative to a control sample, wherein a microsatellite marker length alteration in the specimen relative to the control sample indicates the presence of a cancer in a lung that which drains into the sputum. The claims are further drawn to detecting bladder cancer in a urine specimen comprising determining a microsatellite marker length alteration relative to a control sample wherein a microsatellite marker length alteration in the urine sample relative to the control sample indicates the presence of a cancer in an organ which drains into the urine. The claims are also drawn to a method of detecting cancer of an organ in a specimen of a body fluid which drains the organ wherein the specimen is selected from the group consisting of urine, sputum, bile, stool, cervical smears, tears, cerebral spinal fluid, and lymph nodes comprising detecting a microsatellite marker length alteration relative to a control sample, wherein a microsatellite marker length alteration in the specimen relate to the control sample indicates the presence of a cancer that drains in the organ which drains into the bodily fluid. The claims are allowable over the prior art because the prior art does not teach or fairly suggest a method of detecting bladder cancer or lung cancer or a cancer of an organ by detecting a microsatellite length alteration relative to a control sample in any of the following specimens: urine, sputum, bile, stool, cervical smears, tears, cerebral spinal fluid, and lymph nodes. The claims are

Application/Control Number: 09/164,764

Art Unit: 1634

allowable over the closest prior art of Brugieres, in view of Gonzalez-Zulueta, Merlo, and Ah-

Page 3

See because the claims no longer recite detecting a microsatellite length alteration in a blood

sample vs a control sample.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to examiner Jehanne Souaya whose telephone number is (703)308-6565. The

examiner can normally be reached Monday-Friday from 9:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gary Jones, can be reached on (703) 308-1152. The fax phone number for this Group

is (703) 305-3014.

Any inquiry of a general nature should be directed to the Group receptionist whose

telephone number is (703) 308-0196.

W. Gary Jones

Supervisory Patent Examiner Technology Center 1600

Jehanne Souaya

Patent examiner Art Unit 1634

7/21/02